Iris dataset Study:

We have done

> library(MASS)

> data("iris")

> nrow(iris)

[1] 150

> names(iris)

[1] "Sepal.Length" "Sepal.Width" "Petal.Length" "Petal.Width" "Species"

> lm1<-(Sepal.Length~Petal.Width)

> anova(lm1)

Error in UseMethod("anova") :

no applicable method for 'anova' applied to an object of class "formula"

> Anova(lm1)

Error in Anova(lm1) : no se pudo encontrar la función "Anova"

> lm1<-(Sepal.Length~Petal.Width, data=iris)

Error: inesperado ',' in "lm1<-(Sepal.Length~Petal.Width,"

> lm1<-lm(Sepal.Length~Petal.Width, data=iris)

> Anova(lm1)

Error in Anova(lm1) : no se pudo encontrar la función "Anova"

> anova(lm1)

Analysis of Variance Table

Response: Sepal.Length

Df Sum Sq Mean Sq F value Pr(>F)

Petal.Width 1 68.353 68.353 299.17 < 2.2e-16 \*\*\*

Residuals 148 33.815 0.228

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

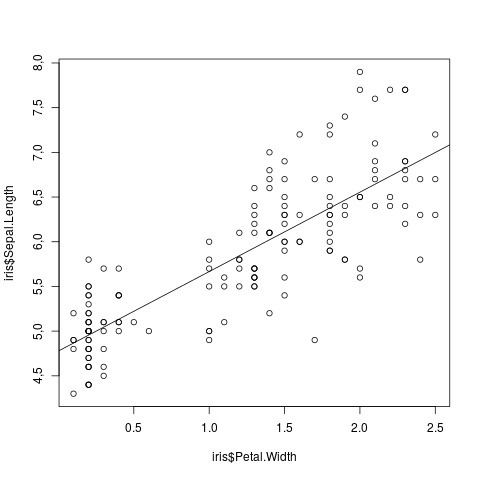
> png("iris-plot.png")

> plot(iris$Sepal.Length~iris$Petal.Width)

> abline(lm1)

> dev.off()

null device



As we want to discriminate by species, we select now only one of them

iris.setosa<-iris[iris$Species=="setosa",]

And redoing the analisis above but with data=iris.setosa we obtain this new figure

